

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF EXPRESS MAILING

I hereby certify that this paper and the documents and/or fees referred to as attached therein are being deposited with the United States Postal Service on **July 7, 2003** in an envelope as "Express Mail Post Office to Addressee" service under 37 CFR §1.10, Mailing Label Number **EU721712601US**, addressed to the Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450.


Jay R Beyer

Attorney Docket No.: **DCI-8CIP1C2**

First Named Inventor:

John E. Mercer

EU 721712601 US

UTILITY PATENT APPLICATION TRANSMITTAL (37 CFR § 1.53(b))
(Continuation, Divisional or Continuation-in-part application)

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

☒ Duplicate for
fee processing

19972 U.S. PTO
10/615222
07/07/03

Sir: This is a request for filing a patent application under 37 CFR. § 1.53(b) in the name of inventors:
John E. Mercer and Albert W. Chau

For: **TRACKING THE POSITIONAL RELATIONSHIP BETWEEN A BORING TOOL AND ONE OR MORE
BURIED LINES USING A COMPOSITE MAGNETIC SIGNAL**

This application is a ☒ Continuation ☐ Divisional ☐ Continuation-in-part of prior Application No. **09/751,478**, filed on **December 28, 2000**, which is a continuation of prior Application No. **09/321,151**, filed on **May 27, 1999** and issued as Patent No. **6,191,585** on **February 20, 2001**, which is a continuation-in-part of prior Application No. **09/082,142**, filed on **May 20, 1998** and issued as Patent No. **5,914,602** on **June 22, 1999**, which is a continuation of prior Application No. **08/643,209**, filed on **May 3, 1996** and issued as Patent No. **5,757,190** on **May 26, 1998**, from which priority under 35 U.S.C. §120 is claimed.

Application Elements:

- ☒ **20** Pages of Specification, Claims and Abstract
☒ **8** Sheets of **formal** Drawings
☒ **3** Pages of Declaration
☐ Newly executed (original or copy)
☒ Copy from a prior application (37 CFR 1.63(d) for a continuation or divisional). The entire disclosure of the prior application from which a copy of the declaration is herein supplied is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
☐ Deletion of inventors Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

Accompanying Application Parts:

- ☒ Assignment and Assignment Recordation Cover Sheet (recording fee of \$40.00 enclosed)
- ☐ Power of Attorney
- ☐ 37 CFR 3.73(b) Statement by Assignee
- ☒ Information Disclosure Statement with Form PTO-1449 ☐ Copies of IDS Citations
- ☐ Preliminary Amendment (*New claims numbered after highest original claim in prior application.*)
- ☒ Return Receipt Postcard
- ☐ Small Entity Statement(s) ☒ Statement filed in prior application. Status still proper and desired.
- ☐ Request and Certification under 35 USC 122(b)(2)(B)(i).
- ☐ Other:

Claim For Foreign Priority

- ☐ Priority of _____ Application No. _____ filed on _____
is claimed under 35 U.S.C. § 119.
 - ☐ The certified copy has been filed in prior application U.S. Application No. _____
 - ☐ The certified copy will follow.

Extension of Time for Prior Pending Application

- ☐ A Petition for Extension of Time is being concurrently filed in the prior pending application. A copy of the Petition for Extension of Time is attached.

Amendments

- ☐ Amend the specification by inserting before the first line the sentence: "This is a
 - ☐ Continuation ☐ Continuation-in-part ☐ Divisionalapplication of copending prior
 - ☐ Application No. _____, filed on _____,
 - ☐ International Application _____ filed on _____ which designated the United States,the disclosures of which are incorporated herein by reference."
- ☐ Cancel in this application original claims _____ of the prior application before calculating the filing fee. (*At least one original independent claim must be retained.*)

Fee Calculation (37 CFR § 1.16)

NO. FILED	(Col. 1) (Col. 2)		SMALL ENTITY		OR	LARGE ENTITY	
	NO. EXTRA		RATE	FEE		RATE	FEE
BASIC FEE				\$375	\$ 375	OR	\$750
TOTAL CLAIMS	<u>20</u>	-20 =	<u>0</u>	x9 =	\$	OR	x18 =
INDEP CLAIMS	<u>2</u>	-03 =	<u>0</u>	x42 =	\$	OR	x84 =
[] Multiple Dependent Claim Presented				\$140 =	\$	OR	\$280 =
* If the difference in Col. 1 is less than zero, enter "0" in Col. 2.				Total	\$ 375	OR	Total

☒ Please charge Deposit Account No. 19-1685 (Order No. DCI-8CIP1C2) in the amount of \$415.00 to cover the filing fee and assignment recordation fee.

☒ The Commissioner is authorized to charge any fees beyond the amount enclosed which may be required, or to credit any overpayment, to Deposit Account No. 19-1685 (Order No. DCI-8CIP1C2).

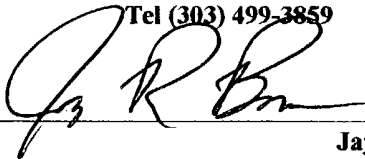
General Authorization for Petition for Extension of Time (37 CFR §1.136)

☒ Applicants hereby make and generally authorize any Petitions for Extensions of Time as may be needed for any subsequent filings. The Commissioner is also authorized to charge any extension fees under 37 CFR §1.17 as may be needed.

☒ Please send correspondence to the following address: Customer Number 21833

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Date: July 7, 2003



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